



National Weather Service

Storm Data and Unusual Weather Phenomena



January 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ILLINOIS, South

ILZ075>078-080>094									
Jefferson - Wayne - Edwards - Wabash - Perry - Franklin - Hamilton - White - Jackson - Williamson - Saline - Gallatin - Union - Johnson - Pope - Hardin - Alexander - Pulaski - Massac									
	01	1700CST			0	0	150K		Ice Storm
	02	0600CST							
Significant ice accumulations caused travel problems across southern Illinois beginning late on New Years Day and continuing through the night. Traffic volume was especially light because it was a holiday weekend. Those who had to be out found roads extremely difficult to navigate. The hardest hit areas, from Carbondale to Benton and West Frankfort, experienced numerous power outages due to snapped tree limbs and power lines. A rural electric co-op reported slow progress in restoring power because of treacherous roads and fallen trees. Estimates of the number of residences without power were around 10,000, primarily in Franklin and Jackson Counties. Ice accumulations were estimated to be one-half to one inch thick in the area from Carbondale to DuQuoin and Mt. Vernon. Shelters were set up for those without heat, but few people took advantage of them. Local emergency rooms reported a sharp increase in slip-and-fall injuries. Dozens of vehicle accidents or mishaps occurred, including a fatal wreck on Interstate 57 about 4 miles south of Mt. Vernon. The governor of Illinois issued a disaster declaration for the entire state.									
ILZ075>078-081>094									
Jefferson - Wayne - Edwards - Wabash - Franklin - Hamilton - White - Jackson - Williamson - Saline - Gallatin - Union - Johnson - Pope - Hardin - Alexander - Pulaski - Massac									
	08	0600CST			0	0			Ice Storm
		1500CST							
Freezing rain coated surfaces with around a quarter inch of ice in most areas. The exception was in the vicinity of the Ohio River from Massac County to Hardin County, where locally one half inch of ice was observed. Many schools cancelled classes again, only a day after re-opening in the wake of an ice storm on January 2. A semi-trailer overturned on Interstate 57 just south of Marion. A total of 25 ice-related falls were recorded at Union County Hospital. This ice storm was considerably less serious than the ice storm of January 1 and 2, which hit the Carbondale and West Frankfort areas worst.									
Johnson County									
1.5 W Vienna to 5 S Vienna	17	1802CST			0	0	4K		Thunderstorm Wind (G52)
		1815CST							
Trees were downed across parts of Johnson County, including Route 146 just west of Vienna and U.S. 45 near the Massac County line.									
Jackson County									
3 N Murphysboro	17	1804CST			0	0	3K		Thunderstorm Wind
Trees were blown down.									
Jackson County									
Grand Tower	17	1808CST			0	0	3K		Thunderstorm Wind (G52)
Trees were blown down.									
Alexander County									
Miller City	17	1810CST			0	0	50K		Thunderstorm Wind
A carport and shed were demolished, and a one third of the roof was blown off a house.									
Massac County									
Metropolis	17	1816CST			0	0			Thunderstorm Wind (G52)
An off-duty meteorologist estimated gusts to 60 MPH on the east edge of Metropolis.									
Franklin County									
Sesser	17	1830CST			0	0	30K		Thunderstorm Wind
A travel trailer was thrown 60 yards.									
Jefferson County									
Ina	17	1830CST			0	0	30K		Thunderstorm Wind
A barn was destroyed near Ina on Route 154.									
Hardin County									
Karbers Ridge	17	1845CST			0	0	10K		Thunderstorm Wind
A single trailer was blown over.									
ILZ075-081-084									
Jefferson - Franklin - Jackson									
	21	1400CST			0	0			Flood
	31	2359CST							
Heavy rainfall from a series of March-like storm systems caused the Big Muddy River to overflow its banks. At Murphysboro, where flood stage is 16 feet, the river crested at 29.5 feet on the 26th. The river crested about 5 feet over flood stage at Plumfield.									



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ILLINOIS, South

Moderate flooding occurred, with some houses just downstream of Bridge Street in Murphysboro threatened.

Alexander County
.5 E Thebes to
3 ENE Mc Clure

21	1835CST 1847CST	7	400	0	0	150K	Tornado (F2)
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Union County
2.5 SE Reynoldsville to
3 E Reynoldsville

21	1847CST 1850CST	1	200	0	0	20K	Tornado (F2)
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Top winds were estimated near 130 MPH. Damage was relatively light due to the track of the tornado over rural portions of those counties. A few sheds and barns were destroyed, and a house sustained moderate damage. A fairly large metal barn, about 100 feet by 50 feet, was blown into a stand of trees, but remained fully intact in the upper reaches of the trees. Tree damage was complete along some wooded portions of the track. The tornado formed less than a half mile east of Thebes, and then tracked seven miles through the Shawnee National Forest. The damaged structures were near Thebes and Gale.

Union County
.5 NE Anna to
.8 NE Anna

21	1913CST 1914CST	0.3	30	0	0	1K	Tornado (F0)
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A state police officer reported a brief touchdown near Anna. Damage was minimal, with just some fencing blown down.

Williamson County
Marion

21	1932CST			0	0		Hail (1.00)
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Jackson County
Countywide

21 22	2000CST 0300CST			0	0	100K	Flash Flood
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A series of supercell thunderstorms formed a procession over southwest Illinois throughout the evening hours of January 21. Rainfall amounts of 4 to 7 inches were quite common across Union and Jackson Counties between 6 P.M. and midnight. Anna

Union County
Countywide

21 22	2000CST 0300CST			0	0	100K	Flash Flood
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Williamson County
Countywide

21 22	2000CST 0300CST			0	0	70K	Flash Flood
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In Jackson County, sheriff's deputies used a johnboat to help evacuate a family whose house became surrounded by water. In Williamson County, several roads were closed by high water, including Old Route 13 near Route 148. About a dozen cars were stranded in flood water in the Marion area and had to be pulled out. Many of them ignored barricades set up to divert traffic from flooded areas.

Franklin County
Countywide

21 22	2000CST 0200CST			0	0	100K	Flash Flood
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Heavy rain from a succession of severe thunderstorms caused flash flooding across the county. A van was swept off a roadway in West Frankfort. The occupants of the van made it to safety. Floodwaters reached the windows of a vehicle in West Frankfort. Streets were barricaded where high water was a threat. City workers were called out to assist West Frankfort residents whose basements filled with water. Although the initial flash flooding was primarily urban, rural road and bridge washouts became more of a problem on the morning of the 22nd.

Franklin County
Benton to
West Frankfort

21	2007CST			0	0	50K	Thunderstorm Wind
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In the Benton area, a trailer was moved off its foundation, and a small shed was turned over. Near West Frankfort, a pole barn was heavily damaged.

Alexander County
Countywide

21 22	2130CST 0300CST			0	0	30K	Flash Flood
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Perry County
Countywide

21 22	2130CST 0300CST			0	0		Flash Flood
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Thunderstorms with very heavy rain repeatedly moved over the same counties during the evening. Rainfall amounts from 2 to 4 inches were common. Even though the axis of heaviest rain occurred from Cape Girardeau to Carbondale, areas on either side of this axis received enough rain to flood roadways and small streams.



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					Killed	Injured	Property	Crops	
<u>ILLINOIS, South</u>									
Williamson County									
Herrin	21	2158CST			0	0			Hail (1.00)
Williamson County									
Johnston City	21	2204CST			0	0			Hail (0.88)
Franklin County									
West Frankfort	21	2207CST			0	0			Hail (0.75)
Saline County									
3.5 E Rudement	21	2213CST			0	0	3K		Thunderstorm Wind
									Trees were blown down.
Hamilton County									
Countywide	21 22	2330CST 0300CST			0	0			Flash Flood
Jefferson County									
Countywide	21 22	2330CST 0300CST			0	0			Flash Flood
Wayne County									
Countywide	21 22	2330CST 0300CST			0	0			Flash Flood
									Thunderstorms produced very heavy rain during the evening of the 21st. The axis of heaviest rain was from around Carbondale and Marion southwest, however, even the Mt. Vernon area received 2 to 4 inches of rain. Flash flooding of roads and small streams resulted.
Union County									
Anna	22	0040CST			0	0	20K		Thunderstorm Wind
									A large shed was destroyed by thunderstorm winds.
Johnson County									
Simpson	22	0055CST			0	0	3K		Thunderstorm Wind (G50)
									A few trees and large limbs were blown down.
Massac County									
3 N Metropolis	22	0100CST			0	1	40K		Thunderstorm Wind
									A mobile home was overturned, injuring an elderly female inside. The victim was trapped inside her home for about 20 minutes until fire officials cut an opening to reach her. She was treated and released from a local hospital with bruises and scratches. The trailer was tied down with anchors. In addition, a shed and home in the nearby area sustained damage. Numerous trees were down. The damage path appeared to cross Interstate 24 midway between Metropolis and Round Knob.
Pope County									
1 S Rosebud	22	0108CST			0	0	10K		Thunderstorm Wind
									A roof was blown off a barn.
Pope County									
4 SSW Golconda to 4 S Golconda	22	0115CST 0119CST	1.5	150	0	0	800K		Tornado (F2)
									A tornado with top winds estimated near 125 MPH struck a development of cabins and small summer homes in the Shawnee National Forest, at a place called Ropers Landing. The tornado damaged or destroyed about 30 of these structures and caused extensive tree damage. About six cabins were completely demolished. The homes were unhabited in the middle of winter. Ropers Landing is located at the base of a bluff along the Ohio River. The tornado lifted as it crossed the Ohio River.
Saline County									
Countywide	22	0200CST 0600CST			0	0	80K		Urban/Sml Stream Fld
									Heavy rains from a succession of thunderstorms produced 2 to 3 inches of rain across much of Saline County, including 2.42 inches at the Harrisburg Sewer Plant. Rural county roads were heavily damaged by the runoff. Several roads had water over them
ILZ087-090>094									
Gallatin - Pope - Hardin - Alexander - Pulaski - Massac	22 31	0600CST 2359CST			0	0			Flood
									Repeated heavy rainfall events from a succession of March-like storm systems caused the Ohio River to rise 5 to 10 feet above



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ILLINOIS, South

flood stage. At Shawneetown, where flood stage is 33 feet, the river crested at 43.5 feet on the 30th. At Brookport, where flood stage is 37 feet, the river crested at 45.9 feet on the 27th. Further downstream, the river crested 8 feet above flood stage at both Grand Chain and Cairo by early on the 28th. At these stages, flooding is minor, but approaches the moderate category. Considerable flooding of farmland occurs, and some county roads are closed. Riverside parks become inundated and are closed.

Alexander County

Countywide	22	0600CST 1030CST			0	0			Flash Flood
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Jackson County

Countywide	22	0600CST 1030CST			0	0			Flash Flood
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Union County

Countywide	22	0600CST 1030CST			0	0			Flash Flood
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Williamson County

Countywide	22	0600CST 1030CST			0	0			Flash Flood
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More heavy rain following the thunderstorms the previous evening caused a renewal of flooding problems. In Alexander County, Cairo High School was closed due to flooding problems.

ILZ083

White

22	1300CST			0	0	40K		Flood
31	2359CST							

The Little Wabash River rose well above flood stage as a result of several heavy rainfall events due to March-like storm systems. At Carmi, where flood stage is 27 feet, the river crested at 34.8 feet on the 28th. Areas near Route 1 and Route 14 in Carmi were flooded. Businesses just downstream of those roads were threatened by floodwaters.

ILZ076

Wayne

22	1300CST			0	0	30K		Flood
25	2200CST							

Heavy rains from a series of March-like storm systems caused the Skillet Fork River to rise well above flood stage. At Wayne City, where flood stage is 15 feet, the river crested at 21.1 feet at 6 P.M. on the 23rd.

Hamilton County

Countywide	31	0745CST 1030CST			0	0			Flash Flood
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Jefferson County

Countywide	31	0745CST 1030CST			0	0			Flash Flood
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Wayne County

Countywide	31	0745CST 1030CST			0	0			Flash Flood
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White County

Countywide	31	0745CST 1030CST			0	0			Flash Flood
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Heavy rain on already moist ground caused some runoff problems. Water was across several roads in these counties.

INDIANA, Southwest

INZ081>082-085>088

Gibson - Pike - Posey - Vanderburgh - Warrick - Spencer

01	1900CST			0	0			Ice Storm
02	0600CST							

A period of freezing rain coated surfaces with a quarter to a half inch of ice. Roads became icy and dangerous. A few tree limbs were down.

INZ081>082-085>088

Gibson - Pike - Posey - Vanderburgh - Warrick - Spencer

08	0500CST 1400CST			0	0			Ice Storm
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Freezing rain coated objects with about a quarter of an inch of ice. Roads were ice or slush covered, but no downed tree limbs or power lines were reported.

Spencer County

Rockport	21	0301CST			0	0			Hail (0.75)
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					Killed	Injured	Property Crops	

INDIANA, Southwest

Dime size hail covered the ground near Rockport.

Pike County								
Stendal	22	0300CST			0	0	5K	Thunderstorm Wind

A shed was blown apart.

Vanderburgh County								
Countywide	22	0330CST 0530CST			0	0		Flash Flood

Gibson County								
Countywide	22	1700CST 2300CST			0	0		Flash Flood

Pike County								
Countywide	22	1700CST 2300CST			0	0		Flash Flood

Posey County								
Countywide	22	1700CST 2300CST			0	0		Flash Flood

Spencer County								
Countywide	22 23	1700CST 0200CST			0	0		Flash Flood

Vanderburgh County								
Countywide	22	1700CST 2300CST			0	0		Flash Flood

Warrick County								
Countywide	22	1700CST 2300CST			0	0		Flash Flood

Thunderstorms with heavy rain persisted over southwest Indiana for much of the day, causing small streams and creeks to begin flooding late in the day. Three to five inches of rain were common in a 12-hour period. Poseyville reported 3.59 inches, New Harmony measured 4.74 inches, and Evansville 2.53 inches. The Indiana Department of Transportation reported barricading of flooded roads in Evansville.

INZ085-087>088								
		Posey - Warrick - Spencer						
	23 31	0200CST 2359CST			0	0		Flood

Very heavy rains from a succession of March-like storm system caused the Ohio River to rise above flood stage. At Newburgh Lock and Dam, the river crested at 42.6 feet on the 26th. Flood stage there is 38 feet. At Mt. Vernon, where flood stage is 35 feet, the crest occurred on the 30th at 39.9 feet. At these stages, flooding is mainly confined to farmland. Some roads west and southwest of Mount Vernon were threatened.

INZ081-085								
		Gibson - Posey						
	23 31	1300CST 2359CST			0	0		Flood

Repeated heavy rainfall events from a series of March-like storm systems caused the Wabash River to rise above flood stage. At New Harmony, where flood stage is 15 feet, the river crested at 20.2 feet on the 31st. At this stage, New Harmony State Park floods, and northern parts of New Harmony are threatened. Sandbagging becomes necessary.

INZ081								
		Gibson						
	29 31	1400CST 2359CST			0	0		Flood

Heavy rains from thunderstorms that occurred with a series of March-like storm systems drove the Patoka River above flood stage. The river did not crest at Princeton until early February.

KENTUCKY, Southwest

KYZ001>008-010>011-013>016-018>020								
		Fulton - Hickman - Carlisle - Ballard - Mcracken - Graves - Livingston - Marshall - Crittenden - Lyon - Caldwell - Union - Webster - Hopkins - Henderson - Daviess - Mclean						

	01 02	2000CST 0600CST			0	0		Ice Storm

Freezing rain coated many surfaces with a quarter to half inch of ice. The heaviest icing was nearest the Illinois state line, from Ballard and Mcracken Counties to Union County. The ice was not sufficient to bring down trees or power lines in Western



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KENTUCKY, Southwest

Kentucky. Slick roads contributed to at least two accidents involving serious injuries. Both wrecks occurred in Graves County. In Henderson County, a five-vehicle accident on the southbound U.S. 41 bridge over the Ohio River caused traffic to back up past the Interstate 164 junction. Schools in Union, Webster, and Daviess Counties were closed on the 4th due to icy roads.

KYZ001>011-013>016-018>021

Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Calloway - Crittenden - Lyon - Caldwell - Union - Webster - Hopkins - Henderson - Daviess - Mclean - Muhlenberg

08 0500CST 1400CST 0 0 Ice Storm

Freezing rain coated surfaces with up to half an inch of ice. The most significant icing was along the Ohio River and extreme western Kentucky from Mayfield and Paducah to Henderson and Owensboro. There was just enough ice to bring down some tree limbs and power lines in those areas. Scattered power outages affected roughly 1500 customers in Union and Webster Counties, and 1000 customers in McCracken and Ballard Counties. The main effect of the ice was on roads and travel conditions. Icy conditions were blamed for numerous falls, sending victims to local hospitals for everything from sprained wrists to multiple broken bones.

**Calloway County
Countywide**

08 1845CST 2030CST 0 0 3K Flash Flood

**Trigg County
Countywide**

08 1845CST 2030CST 0 0 Flash Flood

Heavy rain up to an inch in 3 hours on partially frozen ground caused some flooding problems. Several roads were flooded in Calloway County, and a creek was out of its banks in Trigg County.

**Fulton County
Hickman**

17 1800CST 0 0 Thunderstorm Wind (G52)

**Carlisle County
3 SW Bardwell**

17 1800CST 0 0 4K Thunderstorm Wind

A couple of trees and some power lines were down.

**Mccracken County
3 W Paducah to
Reidland**

17 1812CST 1820CST 0 0 10K Thunderstorm Wind (G52)

About 10 trees were down across roadways in McCracken County. In the Reidland area, an outbuilding was down.

**Calloway County
Murray**

17 1825CST 0 0 Hail (1.00)

**Henderson County
Cairo**

17 1830CST 0 0 10K Thunderstorm Wind (G52)

Wind gusts estimated around 60 MPH collapsed a barn.

**Marshall County
1 E Brewers**

17 1835CST 0 0 150K Thunderstorm Wind (G78)

A National Weather Service damage survey indicated a microburst containing winds estimated near 90 MPH overturned 2 mobile homes and demolished three or four barns.

**Graves County
Golo to
Farmington**

17 1837CST 0 0 150K Thunderstorm Wind (G70)

East of Mayfield, thunderstorm winds destroyed a barn, blew a nearby mobile home off its foundation, and blew windows out of houses. Numerous trees and power lines were down. A tool shed was destroyed. The mobile home was moved about 4 feet off its foundation, and parts of the nearby barn that was destroyed were strewn across the highway and nearby fields. A local road was

**Ballard County
1 W La Center**

17 1839CST 0 0 8K Thunderstorm Wind

A double wide mobile home was moved 5 feet off its foundation.

**Marshall County
Calvert City**

17 1839CST 0 0 3K Thunderstorm Wind (G70)

An off-duty meteorologist recorded a wind gust to 81 MPH atop a hill near the intersection of Interstate 24 and the Purchase Parkway.



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<u>KENTUCKY, Southwest</u>									
Marshall County 2 W Olive	17	1840CST			0	3	150K		Thunderstorm Wind (G78)
A National Weather Service damage survey revealed a microburst with 90 MPH winds demolished numerous barns and moved a mobile home off its foundation. Three persons were injured in the mobile home. The injuries consisted of cuts and a separated shoulder. Numerous trees were blown down. Highway 80 was closed for several hours due to trees and wires across the road.									
Calloway County Dexter to Murray	17	1845CST			0	0	30K		Thunderstorm Wind (G61)
A wind gust estimated near 70 MPH blew down an amateur radio tower and numerous trees near Dexter. An insurance company in Murray lost part of its roof.									
Crittenden County Mattoon	17	1850CST			0	1	20K		Thunderstorm Wind
A mobile home was blown over, slightly injuring one occupant.									
Lyon County Eddyville	17	1850CST			0	0	3K		Thunderstorm Wind (G50)
A tree and a couple of power lines were down.									
Caldwell County Princeton	17	1900CST			0	0	4K		Thunderstorm Wind
About a dozen trees were blown down across Caldwell County.									
Trigg County Rockcastle	17	1900CST			0	0	3K		Thunderstorm Wind (G50)
Trees and power lines were down in the north and west parts of Trigg County.									
Christian County Gracey	17	1910CST			0	0	10K		Thunderstorm Wind
A carport roof was blown off.									
Hopkins County Hanson	17	1930CST			0	0	15K		Thunderstorm Wind
An equipment storage shed was blown apart.									
Christian County Oak Grove	17	1930CST			0	3	250K		Thunderstorm Wind
A thunderstorm along a squall line produced a microburst at Oak Grove, at and near the Fort Campbell military installation. Several mobile homes were damaged. Numerous trees were down, and the roof was damaged on a church on Kentucky 115. A store at the entrance to Fort Campbell suffered damage to the roof and windows. A van was blown off the road and overturned in the parking lot of the store. A guard shack at the entrance to the post was picked up and moved with guards in it. At least one of the guards was injured. A total of three people were treated for cuts from flying glass. The roof of a 95-room guesthouse on the army base was ripped off, causing the dislocation of its residents.									
Todd County Trenton to Allensville	17	1945CST 2010CST			0	3	1.5M		Thunderstorm Wind (G87)
A National Weather Service damage survey indicated a macroburst containing winds near 100 MPH caused extensive damage across southern Todd County. Most of the damage was in the Zion, Hermon, Allensville, and Trenton areas. Wind destroyed two trailers, three hog houses, and numerous barns and sheds. The injuries occurred to occupants of a trailer. Two people were trapped in the mobile home for a while, and one was transported to a hospital for minor injuries.									
Muhlenberg County Greenville	17	2000CST			0	0	4K		Thunderstorm Wind
Trees were blown down over roadways. Power outages were reported. A squall line crossed western Kentucky at a very rapid speed of around 60 MPH. Although damage was not widespread in terms of aerial coverage, a few pockets of severe damage were observed. A few microbursts across western Kentucky contained wind									



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<u>KENTUCKY, Southwest</u>									
Trigg County									
1 S Cadiz	21	0652CST			0	0			Hail (0.88)
Ballard County									
Wickliffe	22	0040CST			0	0			Thunderstorm Wind (G52)
Ballard County									
Gage	22	0052CST			0	0	100K		Thunderstorm Wind
On a local farm, a horse barn, tobacco barn, corn crib, and a semi were destroyed.									
Ballard County									
5 ENE Wickliffe to 6 ENE Wickliffe	22	0052CST 0054CST	1	100	0	6	200K		Tornado (F1)
This tornado was rated on the high end of the F-1 category, with top winds near 105 MPH. A mobile home containing a family of six was demolished. All six occupants escaped with only minor to moderate injuries. One small child was not discovered in the debris for over 30 minutes. Rescue workers had difficulty reaching the home due to fallen trees and barns blown onto roadways.									
Ballard County									
Kevil	22	0052CST			0	0	10K		Thunderstorm Wind
A trailer was damaged by severe thunderstorm wind gusts. This storm produced a tornado that formed along the Ballard/McCracken County line just east of Kevil.									
Ballard County									
3 NW La Center	22	0055CST			0	3	200K		Thunderstorm Wind (G78)
An intense thunderstorm microburst overturned and destroyed a mobile home. Three occupants were injured. Workers had trouble reaching the residence due to downed trees. The mobile home flipped over several times before coming to a stop on top of a van and truck. One of the injured persons required surgery for a severe cut on the arm. Nearby, a machine shop was destroyed, and a barn with over 20,000 bushels of grain was blown away.									
McCracken County									
5 WNW (Pah)Barkley A 4 NW (Pah)Barkley Arpt Pa	22	0100CST 0103CST	1.3	100	0	2	500K		Tornado (F1)
The tornado formed near the Ballard/McCracken County line, just east of Kevil. It tracked northeast for about a mile through the Lone Lake subdivision. In the Lone Lake subdivision, three mobile homes were blown off their foundations, and two other mobile homes were severely damaged. Three garages, two cars, and a camper were destroyed. Closer to the beginning of the tornado track along the Ballard County line, two barns were destroyed, and four houses received minor damage. Top winds in this tornado were estimated near 100 MPH.									
Livingston County									
4 N Bayou	22	0121CST			0	0			Thunderstorm Wind (G52)
Trees were down along the Ohio River, across the river from tornado damage in Pope County, Illinois.									
McCracken County									
Paducah	22	0127CST			0	0	50K		Thunderstorm Wind
A camper was destroyed. A tree fell on a house, causing structural damage.									
Todd County									
Trenton to Guthrie	22	0430CST			0	0	50K		Thunderstorm Wind
A couple of farms were damaged in southern Todd County. At the first farm, siding from a farmhouse was strewn across a neighbor's property. At the second farm, a hog farm, three hog barns were destroyed. As a sidenote, a major tornado occurred at about this time in Clarksville, Tennessee, which is in the county just south of Todd. Several residents in southern Todd County found what were believed to be pieces of debris from Clarksville. In the Trenton area, a couple of landowners found vehicle title application forms and licensing receipts from the Montgomery County, Tennessee Courthouse.									
Christian County									
Gracey	22	0705CST			0	0			Hail (0.75)
Dime size hail occurred in western Christian County.									
Christian County									
Countywide	22	1030CST 1230CST			0	0			Flash Flood
The emergency manager in Christian County reported ditches were overflowing.									



National Weather Service

Storm Data and Unusual Weather Phenomena



January 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KENTUCKY, Southwest</u>									
Caldwell County									
Countywide	22	1330CST 2230CST			0	0			Flash Flood
Calloway County									
Countywide	22	1330CST 2230CST			0	0			Flash Flood
Crittenden County									
Countywide	22	1330CST 2230CST			0	0			Flash Flood
Hopkins County									
Countywide	22	1330CST 2230CST			0	0			Flash Flood
Livingston County									
Countywide	22	1330CST 2230CST			0	0			Flash Flood
Lyon County									
Countywide	22	1330CST 2230CST			0	0			Flash Flood
Marshall County									
Countywide	22	1330CST 2230CST			0	0			Flash Flood
Trigg County									
Countywide	22	1330CST 2230CST			0	0			Flash Flood
Union County									
Countywide	22	1330CST 2230CST			0	0			Flash Flood
Webster County									
Countywide	22	1330CST 2230CST			0	0			Flash Flood
Heavy rain associated with thunderstorms persisted across much of western Kentucky through the day. Rainfall totals averaged from 3 to 6 inches, with Kentucky Dam reporting one of the highest amounts at 5.88 inches. Some road closures were reported in most western Kentucky counties. A few of the more significant road closures included Kentucky 80 east of Hardin (Marshall County), Kentucky 453 at mile marker 15 (Livingston County), Kentucky 1943 at mile marker 3 (Lyon County), and Kentucky 126 and 1253 in Trigg County. In Hopkins County near Nortonville, a creek flooded, surrounding trailers and houses with several inches of water. In Webster County, Highway 132 between Dixon and Clay was closed. In Trigg County, the Little River overflowed its banks off Kentucky 139 south of Cadiz.									
Ballard County									
Countywide	22	1500CST 2200CST			0	0			Flash Flood
Carlisle County									
Countywide	22	1500CST 2200CST			0	0			Flash Flood
Fulton County									
Countywide	22	1500CST 2200CST			0	0			Flash Flood
Graves County									
Countywide	22	1500CST 2200CST			0	0			Flash Flood
Hickman County									
Countywide	22	1500CST 2200CST			0	0			Flash Flood
Mccracken County									
Countywide	22	1500CST 2200CST			0	0			Flash Flood

Thunderstorms with heavy rain persisted over extreme southwest Kentucky for over 12 hours, beginning around 1 A.M. Rivers, streams, and creeks began to overflow across roads. In Graves County, emergency management personnel reported eleven roads



National Weather Service

Storm Data and Unusual Weather Phenomena



January 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage Property	Crops	Character of Storm
Killed	Injured								

KENTUCKY, Southwest

were closed. In the Mississippi River counties, some roads were covered with water, and there were reports of a few homes threatened by rising floodwater. In Graves County, Mayfield Creek flooded, sending water over roads. In McCracken County, flooding of the Clarks River affected some roads and neighborhoods.

Daviess County

Countywide	22	1700CST		0	0		
	23	0300CST					Flash Flood

Henderson County

Countywide	22	1700CST		0	0		
		2300CST					Flash Flood

McLean County

Countywide	22	1700CST		0	0		
		2300CST					Flash Flood

Thunderstorms with heavy rainfall persisted over northwest Kentucky for most of the day, causing small streams and creeks to rise out of their banks. Rainfall for the event averaged around 4 inches, including 3.89 at Owensboro. Some roads were closed.

Christian County

Countywide	22	1700CST		0	0	50K	
	23	0300CST					Flash Flood

Muhlenberg County

Countywide	22	1700CST		0	0		
	23	0300CST					Flash Flood

Todd County

Countywide	22	1700CST		0	0	20K	
	23	0300CST					Flash Flood

Thunderstorms with heavy rain persisted for much of the day, producing an average of 4 to 5 inches of rain. Hopkinsville measured 4.16 inches. Christian and Todd County schools were dismissed on the 22nd due to the threat of water going over the roads. In Hopkinsville, voluntary evacuations were conducted near the Little River, mainly in the Cherokee Park neighborhood. A Red Cross shelter was set up for evacuees. Twelve roads were barricaded around Christian County.

KYZ020

McLean

23	1200CST		0	0	25K	
31	2359CST					Flood

Moderate flooding occurred on the Green River, with thousands of acres inundated in the Rumsey, Jewel City, and Island areas. At Calhoun, where flood stage is 23 feet, the river crested at 27.5 feet on the 28th.

KYZ004>005-007-010-014-018>019

Ballard - Mcracken - Livingston - Crittenden - Union - Henderson - Daviess

24	0800CST		0	0	20K	
31	2359CST					Flood

Repeated heavy rains from a succession of March-like storm systems caused the Ohio River to rise above flood stage late in the month. At Smithland, where flood stage is 40 feet, the river crested at 42.7 feet on the morning of the 27th. At Paducah, where flood stage is 39 feet, the river crested at 43.6 feet on the 26th. The flooding was generally minor and primarily confined to farmland and riverside parks and access roads. High water forced the Cave-In-Rock Ferry, linking Kentucky 91 north of Marion, KY, with Illinois 1 in Cave-In-Rock, to close. Water on the Kentucky side of the river rose to cover the road. The ferry shuttles about 500 vehicles across the river each day. The next closest crossings across the Ohio River are bridges at Paducah, KY and Shawneetown, IL.

MISSOURI, Southeast

MOZ076-086>087-100-107>112-114

Perry - Bollinger - Cape Girardeau - Wayne - Carter - Ripley - Butler - Stoddard - Scott - Mississippi - New Madrid

01	1100CST		0	0	150K	
02	0600CST					Ice Storm

Significant ice accumulations occurred over most of southeast Missouri late on New Years Day and continuing through New Years night. The heaviest coatings of ice were north and west of Cape Girardeau, especially in Carter, Wayne, Bollinger and Perry Counties, where trees and power lines were brought down. In Butler County, half an inch of ice accumulation was observed in Poplar Bluff. Slick roads kept the Missouri State Highway Patrol busy, giving troopers a total of 58 accidents during a 12-hour period. A fatal accident near Puxico was blamed on icy road conditions. In a separate incident, Highway 51 just south of Puxico in Stoddard County was closed due to a tractor-trailer that jackknifed. Even the Poplar Bluff Street Department pulled its trucks off the road after one of its trucks slid into a utility pole. A blast of cold air in the wake of the storm rendered road salt very ineffective for ice removal. Prior to the storm, checkout lines at local grocery stores were up to an hour long, and most stores sold out of bread

[illegible]

MISSOURI, Southeast

well before the evening of the 1st. Numerous towns cancelled school due to poor road conditions on the 4th.

MOZ087-108>112-114

Cape Girardeau - Ripley - Butler - Stoddard - Scott - Mississippi - New Madrid

08	0500CST 1400CST	0	0	Ice Storm
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Freezing rain coated surfaces with around one quarter inch of ice. This icing event was considerably less serious than the ice storm on January 1 and 2. Roads were slippery, and trees were glazed. There were no reports of any downed tree limbs or power lines.

Wayne County

**4 E Greenville to
6 E Greenville**

17	1632CST 1640CST	0	0	115K	Thunderstorm Wind
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Thunderstorm winds caused extensive damage to a house 4 miles east of Greenville. Another house about 6 miles east of Greenville was damaged. Numerous trees and power lines were down in eastern Wayne County. A National Weather Service damage survey indicated the damage was caused by microburst winds near 100 MPH. At the first residence, a modular home was nearly destroyed, with just the bathrooms left standing. An outbuilding 26 by 30 was also destroyed. At the second residence, a very old home was destroyed and two old outbuildings were heavily damaged.

Stoddard County

Dexter

17	1655CST	0	0	75K	Thunderstorm Wind
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Very strong thunderstorm winds blew outbuildings over, destroyed a mobile home, and blew windows out of a service station. Trees were down, including some on houses. At a gas station on Highway AD, the station's canopy was destroyed and the front glass door was blown out. An empty fuel storage tank was overturned. Debris from the station damaged several houses just north

Butler County

Poplar Bluff

17	1655CST	0	0	100K	Thunderstorm Wind
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Thunderstorm winds destroyed 7 trailers in a trailer park. Three houses were partially unroofed.

Bollinger County

Arab

17	1705CST	0	0	150K	Thunderstorm Wind (G82)
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Thunderstorm winds estimated near 95 MPH overturned a vehicle. A house along Highway 51 was heavily damaged and pushed off its foundation. In the same area, a small shed and a large truck shed were destroyed. Along Highway C, a church lost part of its

Cape Girardeau County

Gordonville

17	1712CST 1726CST	0	0	25K	Thunderstorm Wind
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Thunderstorm winds were estimated near 70 MPH at Gordonville. Elsewhere in Cape Girardeau County, a roof was blown off a house at the intersection of County Road 473 and 472. Numerous trees and power lines were down on County Roads 206, 203, and 214.

New Madrid County

Parma

17	1732CST	0	0	10K	Thunderstorm Wind (G60)
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Numerous trees and power lines were down.

Mississippi County

2 W Charleston to Charleston

17	1740CST	0	3	100K	Thunderstorm Wind
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Thunderstorm winds overturned a mobile home and blew down a barn. The roof was removed from the Farm Bureau building in Charleston. At the Charleston Inn, windows were blown out and the roof was damaged. A large sign was snapped off, and a steel light post was snapped. Lots of trees were down in Charleston. The three occupants of the overturned mobile home were transported to a hospital.

Mississippi County

Bertrand

17	1750CST	0	0	30K	Lightning
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Lightning struck a residence, setting it on fire. The house was destroyed.

Scott County

**.5 W Sikeston to
.5 N Sikeston**

21	1650CST 1653CST	0.8	40	0	0	Tornado (F0)
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A brief tornado touchdown was reported, with no damage.

Butler County

Qulin

21	1732CST	0	0	Hail (1.75)
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Golf ball size hail fell near Oulin.



National Weather Service

Storm Data and Unusual Weather Phenomena



January 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MISSOURI, Southeast

Butler County

Fagus	21	1732CST 1733CST	0.3	30	0	0			Tornado (F0)
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A brief tornado touchdown was observed, with no damage.

New Madrid County

.3 S Morehouse to .3 SE Morehouse	21	1750CST 1751CST	0.3	30	0	0			Tornado (F0)
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A brief tornado touchdown was reported, with no damage.

Perry County

Perryville	21	1754CST			0	0			Hail (0.75)
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Stoddard County

4 E Essex to 4.2 E Essex	21	1800CST 1801CST	0.2	30	0	0			Tornado (F0)
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A brief tornado touchdown occurred, with no damage reported.

Scott County

Oran	21	1813CST			0	0			Hail (0.75)
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Scott County

1.5 S Benton to 1 E Benton	21	1815CST 1818CST	0.8	40	0	0	50K		Tornado (F1)
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A brief tornado touchdown occurred, with winds estimated near 80 MPH. A mobile home was overturned, and sheds were

Butler County

Poplar Bluff	21	1830CST			0	0	20K		Thunderstorm Wind
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The roof of a flower shop blew off.

Stoddard County

Dudley	21	2000CST			0	0			Hail (1.00)
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Cape Girardeau County

Countywide	21 22	2000CST 0300CST			0	0	20K		Flash Flood
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Scott County

Countywide	21 22	2000CST 0300CST			0	0	20K		Flash Flood
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Stoddard County

Countywide	21 22	2000CST 0300CST			0	0	20K		Flash Flood
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A series of supercell thunderstorms with very heavy rain formed a procession across Scott, Stoddard, and Cape Girardeau Counties. Some places, such as Cape Girardeau, received over 6 inches of rain during the evening hours of January 21. This resulted in a rather serious flash flood event, with many roads under water. A few bridges were washed out in Scott County. A 3.5 mile section of Route W near Oran in Scott County was closed due to high water. Considerable street flooding occurred in Cape Girardeau, and a few motorists became stranded.

Bollinger County

Countywide	21 22	2130CST 0300CST			0	0			Flash Flood
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Butler County

Countywide	21 22	2130CST 0300CST			0	0	70K		Flash Flood
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Perry County

Countywide	21 22	2130CST 0300CST			0	0			Flash Flood
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Ripley County

Countywide	21 22	2130CST 0300CST			0	0			Flash Flood
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Wayne County

Countywide	21 22	2130CST 0300CST			0	0			Flash Flood
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Thunderstorms with very heavy rain repeatedly moved over the same areas during the evening. The axis of heaviest rain occurred



National Weather Service

Storm Data and Unusual Weather Phenomena



January 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MISSOURI, Southeast

closer to the Mississippi River, where Cape Girardeau received 6 to 7 inches of rain. Even so, two to four inches of rain from Doniphan to Perryville caused flash flooding of some roads and small streams. In Poplar Bluff, the street department supervisor reported more standing water than any time since 1982. Numerous vehicles were stranded on flooded roads. Butler County firefighters rescued four passengers from a pickup truck on County Road 459 after an overflowing creek rose across the road and trapped them in the vehicle. Another water rescue had to be performed on County Road 368 when a truck attempted to cross the rising waters of Little Black River.

Scott County

1 W Sikeston	21	2155CST			0	0			Hail (0.75)
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New Madrid County

1 NE Morehouse to 2 NE Morehouse	21	2207CST 2209CST	1	100	0	0	10K		Tornado (F1)
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Scott County

1 SW Sikeston to .5 W Sikeston	21	2209CST 2210CST	0.7	50	0	0			Tornado (F1)
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The tornado contained top estimated winds of 75 MPH. Numerous trees were down in the Morehouse area.

Stoddard County

4 NW Dexter to 5 NW Dexter	21	2240CST 2243CST	0.5	80	0	0	50K		Tornado (F1)
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The brief tornado touchdown overturned a mobile home, causing extensive damage. A tool shed was blown away, utility poles were down, and trees were uprooted. Top winds were estimated near 80 MPH.

Scott County

Perkins to .2 N Perkins	21	2300CST 2301CST	0.2	30	0	0			Tornado (F0)
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A weak tornado briefly touched down near Perkins. No damage was discovered.

Scott County

3 W Morley to 2.5 W Morley	21	2305CST 2308CST	0.5	30	0	0	150K		Tornado (F1)
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A brief tornado on State Highway 91 overturned a mobile home, demolished a barn and shed, and blew down a grain bin. Farm

New Madrid County

2 E Matthews	21	2315CST			0	0	50K		Thunderstorm Wind
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A gas station near the intersection of Interstate 55 and Highway 80 was demolished. A shed was blown into a field, and a farming

Scott County

Oran to Morley	21	2318CST			0	0			Hail (0.88)
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Dime to nickel size hail occurred at Morley and Oran.

Scott County

Sikeston	21	2345CST			0	0	20K		Thunderstorm Wind (G52)
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A restaurant sustained roof damage.

Mississippi County

Dogwood to 2 ENE Dogwood	22	0045CST 0048CST			0	0	100K		Thunderstorm Wind
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A large metal machine shop was destroyed in the community of Dogwood. Debris from the shop was scattered across a field east of Highway B. The roof of a nearby house received some damage. At the Dogwood Cemetery, a section of heavy chain-link fence was blown down, and 83 tombstones were blown over. Five to six utility poles were down along Highway 105 east of Dogwood. Much of the town of East Prairie was without power until early afternoon on the 22nd. A building was damaged and irrigation equipment was flipped over just north of Charleston.

MOZ109

Butler

22	0200CST			0	0			Flood
23	1400CST							

Thunderstorms with very heavy rain during the evening of the 21st soaked southeast Missouri with 4 to 6 inches of rain. Poplar Bluff received 3.9 inches of rain. At Poplar Bluff, where flood stage is 16 feet, the Black River crested at 16.4 feet around 1:30 P. M. on the 22nd.

Butler County

Countywide	22	0530CST 1100CST			0	0			Flash Flood
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National Weather Service

Storm Data and Unusual Weather Phenomena



January 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MISSOURI, Southeast

Cape Girardeau County

Countywide	22	0530CST 1100CST			0	0			Flash Flood
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Scott County

Countywide	22	0530CST 1100CST			0	0			Flash Flood
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Stoddard County

Countywide	22	0530CST 1100CST			0	0			Flash Flood
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More heavy rain in the wake of severe thunderstorms the previous evening renewed flooding problems.

MOZ114

New Madrid

26 31	0900CST 2359CST			0	0				Flood
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Heavy rainfall from a series of March-like storms caused the Mississippi River to rise to near bankful by the end of the month. Downstream from the confluence of the swollen Ohio River, the Mississippi River went above flood stage. At New Madrid, where flood stage is 34 feet, the river crested at 35.5 feet on the 29th. This resulted in minor flooding of agricultural bottomland.